

IN THE CLAIMS:

Please enter the following amended claims:

Claims 1-70 Canceled

71. (New) An ozone-producing air purifier, comprising:
 a longitudinal axis;
 a first cylinder having a first cylinder sidewall, having a first window in the first cylinder sidewall, and being fixedly disposed about the longitudinal axis;
 a second cylinder having a second cylinder sidewall, having a second window in the second cylinder sidewall, and being rotatably disposed about the longitudinal axis; and
 a UV lamp that generates ozone-producing radiation when energized, the UV lamp being disposed along the longitudinal axis and within the first and second cylinders;
 where rotation of the second cylinder changes an amount of overlap of the first and second windows, the changing of the amount of window overlap thereby adjusting an amount of ozone-producing radiation being emitted through the overlap.
72. (New) The ozone-producing air purifier of claim 71, further comprising a shaft affixed at its proximal end to the second cylinder, the shaft extending in parallel with the longitudinal axis.
73. (New) The ozone-producing air purifier of claim 72, further comprising a knob affixed to a distal end of the shaft, wherein rotation of the knob effects the rotation of the second cylinder.
74. (New) The ozone-producing air purifier of claim 71, further comprising:
 a base; and
 a first lamp holder structured for securing the UV lamp to the base.

75. (New) The ozone-producing air purifier of claim 74, wherein the base is structured for being mounted into an HVAC duct.
76. (New) The ozone-producing air purifier of claim 74, further comprising:
a germicidal lamp; and,
a second lamp holder structured for securing the germicidal lamp to the base.
77. (New) An ozone-producing air purifier, comprising:
a longitudinal axis;
a first cylinder having a first cylinder sidewall, having a first window in the first cylinder sidewall, and being fixedly disposed about the longitudinal axis;
a second cylinder having a second cylinder sidewall, having a second window in the second cylinder sidewall, and being rotatably disposed about the longitudinal axis, at least one of the first and second window being a tapered slot; and
a UV lamp that generates ozone-producing radiation when energized, the UV lamp being disposed along the longitudinal axis and within the first and second cylinders;
where rotation of the second cylinder changes an amount of overlap of the first and second windows, the changing of the amount of window overlap thereby adjusting an amount of ozone-producing radiation being emitted through the overlap.
78. (New) The ozone-producing air purifier of claim 77, further comprising a shaft affixed at its proximal end to the second cylinder, the shaft extending in parallel with the longitudinal axis.

79. (New) The ozone-producing air purifier of claim 78, further comprising a knob affixed to a distal end of the shaft, wherein rotation of the knob effects the rotation of the second cylinder.

80. (New) The ozone-producing air purifier of claim 77, wherein at least one tapered slot has a non-linear taper.

81. (New) The ozone-producing air purifier of claim 77, wherein the second cylinder is disposed within the first cylinder.

82. (New) An ozone-producing air purifier, comprising:

a lamp for emitting ozone-producing radiation;

first and second pipes respectively having first and second openings, the first and second pipes enclosing the lamp and being concentrically arranged with respect to one another; and

an adjustment member connected to the first pipe for rotating the first opening with respect to the second opening, the rotating thereby adjusting an overlap of the first and second openings,

wherein the adjusting of the overlap changes an amount of ozone-producing radiation being emitted via the overlap.

83. (New) The ozone-producing air purifier of claim 82, wherein the adjustment member is one of a knob, a handle, and a lever.

84. (New) The ozone-producing air purifier of claim 82, further comprising a base structured for fixing the lamp and second pipe thereto, the base being adapted for securing the lamp completely within an HVAC duct.

85. (New) An ozone-producing air purifier, comprising:
a lamp for emitting ozone-producing radiation, the lamp having a longitudinal axis;
a first cylinder having a first cylinder sidewall, having a first window in the first cylinder sidewall, and being fixedly disposed about the longitudinal axis; and
a second cylinder having a second cylinder sidewall, having a second window in the second cylinder sidewall, and being rotatably disposed about the longitudinal axis;
where rotation of the second cylinder changes an amount of overlap of the first and second windows,
wherein the cylinders completely enclose the lamp except that the overlap in windows directly exposes a portion of the lamp through such overlap.

86. (New) The ozone-producing air purifier of claim 85, further comprising a shaft having a proximal end and a distal end, the shaft being affixed at its proximal end to the second cylinder, the shaft extending in parallel with the longitudinal axis.

87. (New) The ozone-producing air purifier of claim 86, further comprising a knob affixed to the distal end of the shaft, wherein rotation of the knob effects the rotation of the second cylinder.

88. (New) An ozone-producing air purifier, comprising:

an airflow-preventing enclosure having a longitudinal axis and including coaxial first and second cylinders disposed about the longitudinal axis, the first cylinder being fixedly disposed, having a first cylinder sidewall and having a first window in the first cylinder sidewall, the second cylinder being rotatably disposed, having a second cylinder sidewall and having a second window in the second cylinder sidewall; and

a UV lamp that generates ozone-producing radiation when energized, the lamp being disposed within the airflow-preventing enclosure along the longitudinal axis;

wherein rotation of the second cylinder changes an amount of overlap of the first and second windows, the overlap having a tapered shape, and

wherein the airflow-preventing enclosure completely encloses the UV lamp except that the overlap directly exposes a portion of the UV lamp through any such overlap.

89. (New) The ozone-producing air purifier of claim 88, further comprising an extension having a proximal end and a distal end, the extension being affixed at its proximal end to the second cylinder, the extension extending in parallel with the longitudinal axis, and being radially offset from the longitudinal axis.

90. (New) The ozone-producing air purifier of claim 89, further comprising a knob affixed to the distal end of the extension.

91. (New) The ozone-producing air purifier of claim 90, further comprising a plate structured for physically separating the cylinders and lamp from the knob, the plate having an arcuate opening through which the shaft extends, the arcuate opening being radially offset from the longitudinal axis.

92. (New) The ozone-producing air purifier of claim 89, further comprising a plate having an arcuate slot having an arc, wherein the distal end of the extension extends through the arcuate slot, and wherein such distal end of the extension moves along the arc as the second cylinder rotates.

93. (New) The ozone-producing air purifier of claim 88, further comprising an electrical connector for supplying electricity to the UV lamp, the electrical connector being removable and independent of the first and second cylinders.

94. (New) The ozone-producing air purifier of claim 88, further comprising:
a electrical connector for supplying electricity to, and being detachable from, the UV lamp;
a chassis structured for mounting the first cylinder thereto; and
an attachment structure mounted to the chassis for securely holding the UV lamp within the first and second cylinders.

95. (New) An ozone-producing air purifier, comprising:

a UV lamp that generates ozone-producing radiation when energized, the UV lamp having a longitudinal axis;

an airflow-preventing enclosure completely covering the UV lamp except for a single, variable opening in the airflow-preventing enclosure, the airflow-preventing enclosure comprising:

a first cylinder having a first cylinder sidewall, having a first window in the first cylinder sidewall, and being fixedly disposed about the longitudinal axis; and,

a second cylinder having a second cylinder sidewall, having a second window in the second cylinder sidewall, and being rotatably disposed about the longitudinal axis; and

a shaft affixed at its proximal end to the second cylinder, the shaft extending in parallel with the longitudinal axis, where rotation of the shaft effects rotation of the second cylinder and correspondingly changes an amount of overlap of the first and second windows, such overlap effecting the variable opening, the overlap having a tapered shape.

96. (New) The ozone-producing air purifier of claim 93, further comprising a plate structured for securely attaching the ozone-producing air purifier to a wall of an airflow passageway.